

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1-3. (Cancelled)

4. (Previously Presented) A recombinant DNA vector comprising the cDNA according to any one of claims 25, 26, 27, 28, 29, 30, 31, 32 or 33.

5. (Previously Presented) An *in vitro* culture of cells transformed with the cDNA according to any one of claims 25, 26, 27, 28, 29, 30, 31, 32 or 33.

6. (Previously Presented) A method of producing a human type α -platelet derived growth factor receptor (α PDGFR) protein comprising culturing cells according to claim 5 under conditions such that said protein is produced and isolating said protein from said cells.

7-21 (Cancelled)

22. (Previously Presented) Plasmid pHF1 deposited under ATCC accession No. 75058.

23-24 (Cancelled)

25. (Previously Presented) The cDNA of claim 26, wherein said polynucleotide is the cDNA insert contained in plasmid pHF1, deposited under ATCC accession No. 75058.

26. (Currently Amended) A cDNA encoding a human α platelet-derived growth factor receptor (α PDGFR) protein wherein said cDNA hybridizes under stringent conditions with a DNA probe selected from the group consisting of:

- a) the cDNA T11 having a nucleotide sequence beginning at nucleotide 1 and ending at nucleotide 3454 as shown in Figure 3;
- b) the cDNA TR4 containing a nucleotide sequence encoding a signal peptide and having an open reading frame beginning at nucleotide 139 and extending to a TAA termination codon at nucleotide 3406 as shown in Figure 3;
- c) The cDNA TR4 which does not contain a nucleotide sequence encoding a signal peptide and having the nucleotide sequence beginning at nucleotide 208 and ending at nucleotide 3406 as shown in Figure 3; and
- d) The cDNA contained in pHF1 as shown in Figure 2 and having a nucleotide sequence beginning at nucleotide 2568 and ending at nucleotide 6378 as shown in Figure 3.

27. (Previously Presented) The cDNA encoding a human α PDGFR protein according to claim 26, wherein said receptor protein has the amino acid sequence selected from the group consisting of

- a) amino acids 1-1089 as shown in Figure 3 and
- b) amino acids 24-1089 as shown in Figure 3.

28. (Previously Presented) The cDNA encoding a human α PDGFR protein according to Claim 27, wherein the receptor protein contains a signal peptide and has the amino acid sequence 1-1089 as shown in Figure 3.

29. (Previously Presented) The cDNA encoding a human α PDGFR protein according to Claim 27, wherein the amino acids which represent the signal peptide have been cleaved and the receptor protein has the amino acid sequence 24 to 1089 as shown in Figure 3.

30. (Previously Presented) The cDNA T11 according to claim 26 having a nucleotide sequence beginning at nucleotide 1 and ending at nucleotide 3454 as shown in Figure 3.

31. (Previously Presented) The cDNA TR4 according to claim 26 containing a nucleotide sequence encoding a signal peptide and having an open reading frame beginning at nucleotide 139 and extending to a TAA termination codon at nucleotide 3406 as shown in Figure 3.

32. (Previously Presented) A cDNA TR4 according to claim 26 which does not contain a nucleotide sequence encoding a signal peptide and having the nucleotide sequence beginning at nucleotide 208 and ending at nucleotide 3406 as shown in Figure 3.

33. (Currently Amended) The cDNA contained in pHF1 according to claim 26 and having a nucleotide sequence beginning at nucleotide 2568 and ending at nucleotide 6378 as shown in Figure 3.

34. (Currently Amended) A substantially pure form of human type α -platelet derived growth factor receptor (α PDGFR) protein having ~~a species with a molecular weight of about 180-185 kilodaltons and a species having a molecular weight of about 160 kilodaltons as determined by sodium dodecyl sulfate polyacrylamide gel~~ and having the amino acid sequence selected from the group consisting of

- a) amino acids 1-1089 of Figure 3; and
- b) amino acids 24-1089 of Figure 3.

35. (Previously Presented) A substantially pure form of human α PDGFR protein according to claim 34, wherein the receptor protein contains a signal peptide and has the amino acid sequence of amino acids 1-1089 as shown in Figure 3.

36. (Previously Presented) A substantially pure form of human α PDGFR protein according to claim 34, wherein the receptor protein has the amino acid sequence of amino acids 24-1089 as shown in Figure 3.